

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 1. (Currently Amended) A method for ~~informing a user of a private mobile communication~~
2 ~~service possible area~~ providing a user with a private mobile communication service when a mobile
3 communication terminal enters a private mobile communication network being interoperable with
4 a public mobile communication network, comprising the steps of:

5 upon receiving a system parameter message being broadcast by the private mobile
6 communication system, checking a predetermined bit for indicating the private mobile
7 communication service area contained in the system parameter message;

8 when the mobile communication terminal exists in the private mobile communication service
9 area, transmitting a location registration message including a predetermined registration type to the
10 private mobile communication system;

11 receiving a message ~~indicating a private mobile communication service possible state~~
12 including a private mobile communication service associated command from the private mobile
13 communication system according to registration result information of the private mobile
14 communication system; and

15 ~~informing the user of the private mobile communication service possible state~~ performing
16 a command contained in the received message.

1 2. (Currently Amended) The method as set forth in claim 1, wherein the message ~~indicating~~
2 ~~the private mobile communication service possible state~~ including the private mobile communication
3 service associated command is a feature notification message including a predetermined field used
4 for indicating the private mobile communication service possible state.

Claim 3. (Cancelled)

1 4. (Currently Amended) A method for ~~informing a user of a private mobile communication~~
2 ~~service possible area~~ providing a user with the private mobile communication service when a mobile
3 communication terminal enters a private mobile communication network being interoperable with
4 a public mobile communication network, comprising the steps of:

5 upon receiving a system parameter message being broadcast by the private mobile
6 communication system, checking a predetermined bit for indicating the private mobile
7 communication service area contained in the system parameter message;

8 when the mobile communication terminal exists in the private mobile communication service
9 area, transmitting a location registration message including a predetermined registration type to the
10 private mobile communication system;

11 receiving a message ~~indicating a private mobile communication service possible state~~
12 including the private mobile communication service associated command from the private mobile
13 communication system; and

14 ~~informing the user of the private mobile communication service possible state~~ performing
15 a command contained in the received message.

1 5. (Currently Amended) The method as set forth in claim 4, wherein the message ~~indicating~~
2 ~~the private mobile communication service possible state~~ including the private mobile communication
3 service associated command is a feature notification message having a predetermined field used for
4 indicating the private mobile communication service possible state.

1 6. (Original) The method as set forth in claim 5, wherein the predetermined field is a CHARi
2 field of an IS-95 Information Records Element.

Claim 7. (Cancelled)

1 8. (Currently Amended) A method for ~~informing a mobile communication terminal of a~~
2 ~~private mobile communication service possible area~~ providing a mobile communication terminal
3 with a private mobile communication service in a private mobile communication system being
4 interoperable with a public mobile communication network, comprising the steps of:

5 broadcasting a system parameter message with a predetermined bit indicating a private
6 mobile communication service area to at least one mobile communication terminal residing in the
7 private mobile communication service area;

8 receiving a registration message including a predetermined registration type requesting to

9 register in the private mobile communication system from the mobile communication terminal;
10 searching for a subscriber database of the private mobile communication system to determine
11 whether the mobile communication terminal is registered or not, and performing a location
12 registration of the mobile communication terminal according to registration result information of the
13 mobile communication terminal; and
14 transmitting a message ~~indicating a private mobile communication service possible state~~
15 including a private mobile communication service associated command to the mobile
16 communication terminal.

1 9. (Currently Amended) The method as set forth in claim 8, wherein the message ~~indicating~~
2 ~~the private mobile communication service possible state~~ including a private mobile communication
3 service associated command is a feature notification message having a predetermined field used for
4 indicating the private mobile communication service possible state.

1 10. (Original) The method as set forth in claim 9, wherein the predetermined field is a
2 CHARi field of an IS-95 Information Records Element.

Claim 11. (Cancelled)

1 12. (Currently Amended) A method for ~~informing a mobile communication terminal of a~~
2 ~~private mobile communication service possible area~~ providing a mobile communication terminal

3 with a private mobile communication service in a private mobile communication system being
4 interoperable with a public mobile communication network, comprising the steps of:

5 broadcasting a system parameter message with a predetermined bit indicating a private
6 mobile communication service area to at least one mobile communication terminal residing in the
7 private mobile communication service area;

8 receiving a registration message including a predetermined registration type requesting to
9 register in the private mobile communication system from the mobile communication terminal;

10 performing a location registration of the mobile communication terminal after receiving the
11 registration message; and

12 transmitting a message ~~indicating a private mobile communication service possible state~~
13 including a private mobile communication service associated command to the mobile
14 communication terminal.

1 13. (Currently Amended) The method as set forth in claim 12, wherein the message
2 ~~indicating the private mobile communication service possible state~~ including a private mobile
3 communication service associated command is a feature notification message having a
4 predetermined field used for indicating the private mobile communication service possible state.

1 14. (Original) The method as set forth in claim 13, wherein the predetermined field is a
2 CHARi field of an IS-95 Information Records Element.

Claim 15. (Cancelled)

1 16. (Currently Amended) A method for ~~informing at least one mobile communication~~
2 ~~terminal of a specific area of a mobile communication network in a mobile communication system~~
3 providing at least one mobile communication terminal with a service of a specific area of a mobile
4 communication network when the mobile communication terminal enters the specific area of the
5 mobile communication network, comprising the steps of:

6 broadcasting a system parameter message with a predetermined bit indicating the specific
7 area to the mobile communication terminal residing in the mobile communication service area;

8 receiving a registration message including a predetermined registration type requesting to
9 register in the mobile communication system from the mobile communication terminal;

10 searching for a subscriber database of the mobile communication system to determine
11 whether the mobile communication terminal is registered or not, performing a location registration
12 of the mobile communication terminal according to registration result information of the mobile
13 communication terminal; and

14 transmitting a message ~~indicating a specific area service possible state~~ including a specific
15 area service associated command to the mobile communication terminal.

1 17. (Currently Amended) The method as set forth in claim 16, wherein the message
2 ~~indicating the specific area service possible state~~ including a specific area service associated
3 command is a feature notification message having a predetermined field used for indicating the

specific area service possible state.

18. (Original) The method as set forth in claim 17, wherein the predetermined field is a CHARi field of an IS-95 Information Records Element.

Claim 19. (Cancelled)

20. (Currently Amended) A method for ~~informing a user of a specific area of a mobile communication network~~ providing a user with a service of a specific area of a mobile communication network when the mobile communication terminal enters the specific area of a mobile communication system, comprising the steps of:

upon receiving a system parameter message being broadcast by the mobile communication system, checking a predetermined bit for indicating the specific area in the system parameter message;

when the mobile communication terminal exists in the service area of the specific area, transmitting a registration message including a predetermined registration type to the mobile communication system;

receiving a message ~~indicating a specific area service possible state in the mobile communication network~~ including a specific area service associated command of a mobile communication network from the mobile communication system; and

~~informing the user of the specific area service possible state~~ performing a command

15 contained in the received message.

Claim 21. (Cancelled)

1 22. (Currently Amended) A computer-readable medium having computer-executable
2 instructions for performing a method for ~~informing a user of a private mobile communication service~~
3 ~~possible area~~ providing a user with a private mobile communication service when a mobile
4 communication terminal enters a private mobile communication network being interoperable with
5 a public mobile communication network, comprising:

6 upon receiving a system parameter message being broadcast by the private mobile
7 communication system, checking a predetermined bit for indicating the private mobile
8 communication service area contained in the system parameter message;

9 when the mobile communication terminal exists in the private mobile communication service
10 area, transmitting a location registration message including a predetermined registration type to the
11 private mobile communication system;

12 receiving a message ~~indicating a private mobile communication service possible state~~
13 including a private mobile communication service associated command from the private mobile
14 communication system according to registration result information of the private mobile
15 communication system; and

16 ~~informing the user of the private mobile communication service possible state~~ performing
17 a command contained in the received message.

1 23. (Currently Amended) The computer-readable medium of claim 22, wherein the message
2 ~~indicating the private mobile communication service possible state~~ including a private mobile
3 ~~communication service associated command~~ is a feature notification message including a
4 predetermined field used for indicating the private mobile communication service possible state.

Claim 24. (Cancelled)

1 25. (Currently Amended) ~~A method for performing a manner mode conversion function of~~
2 ~~a mobile communication terminal in a private mobile communication network being interoperable~~
3 ~~with a public mobile communication network, comprising the steps of:~~

4 ~~upon receiving a system parameter message being broadcast by the private mobile~~
5 ~~communication system, checking a predetermined bit for indicating the private mobile~~
6 ~~communication service area contained in the system parameter message;~~

7 ~~when the mobile communication terminal exists in the private mobile communication service~~
8 ~~area, transmitting a location registration message including a predetermined registration type to the~~
9 ~~private mobile communication system; and~~

10 ~~receiving a message indicating a private mobile communication service possible state from~~
11 ~~the private mobile communication system, and performing the manner mode conversion function~~
12 ~~when the received message has a bit indicating the manner mode conversion function~~ The method
13 as set forth in claim 1, wherein the command allows the mobile communication terminal to perform

14 a manner mode conversion function.

1 26. (Currently Amended) The method as set forth in claim [[25]] 4, wherein the message
2 indicating the private mobile communication service possible state is a feature notification message
3 having a predetermined field used for indicating the private mobile communication service possible
4 state wherein the command enables the mobile communication terminal to perform a manner mode
5 conversion function.

1 27. (Currently Amended) ~~A method for providing at least one mobile communication~~
2 ~~terminal with a manner mode conversion function in a private mobile communication system being~~
3 ~~interoperable with a public mobile communication network, comprising the steps of:~~

4 ~~broadcasting a system parameter message with a predetermined bit indicating a private~~
5 ~~mobile communication service area to the mobile communication terminal contained in a private~~
6 ~~mobile communication service area;~~

7 ~~receiving a location registration message including a predetermined registration type~~
8 ~~requesting to register in the private mobile communication system from the mobile communication~~
9 ~~terminal; and~~

10 ~~performing a location registration of the mobile communication terminal after receiving the~~
11 ~~location registration message, and transmitting a message which contains a bit indicating the manner~~
12 ~~mode conversion function and indicates a private mobile communication service possible state to~~
13 ~~the mobile communication terminal~~ The method as set forth in claim 8, wherein the command

14 enables the mobile communication terminal to perform a manner mode conversion function.

1 28. (Currently Amended) The method as set forth in claim [[27]] 12, wherein the message
2 indicating the private mobile communication service possible state is a feature notification message
3 having a predetermined field used for indicating the private mobile communication service possible
4 state wherein the command allows the mobile communication terminal to perform a manner mode
5 conversion function.

1 29. (Currently Amended) ~~A method for providing at least one mobile communication~~
2 ~~terminal with a manner mode conversion function in a mobile communication system when the~~
3 ~~mobile communication terminal enters the specific area of the mobile communication network,~~
4 ~~comprising the steps of:~~

5 ~~broadcasting a system parameter message with a predetermined bit indicating the specific~~
6 ~~area to the mobile communication terminal contained in a private mobile communication service~~
7 ~~area;~~

8 ~~receiving a registration message having a predetermined registration type requesting to~~
9 ~~register in the mobile communication system of the specific area from the mobile communication~~
10 ~~terminal; and~~

11 ~~searching for a subscriber database of the mobile communication system to determine~~
12 ~~whether the mobile communication terminal is registered or not, performing a location registration~~
13 ~~of the mobile communication terminal according to registration result information of the mobile~~

14 ~~communication terminal, and transmitting a message which contains a bit indicating the manner~~
15 ~~mode conversion function and indicates a specific area service possible state to the mobile~~
16 ~~communication terminal~~ The method as set forth in claim 16, wherein the command enables the
17 mobile communication terminal to perform a manner mode conversion function.

1 30. (Currently Amended) The method as set forth in claim ~~[[29]]~~ 20, wherein ~~the message~~
2 ~~indicating the specific area service possible state is a feature notification message having a~~
3 ~~predetermined field used for indicating the specific area service possible state~~ the command enables
4 the mobile communication terminal to perform a manner mode conversion function.

Claims 31-32. (Cancelled)

1 33. (New) A method for providing a user with a private mobile communication service when
2 a mobile communication terminal enters a private mobile communication network, comprising the
3 steps of:

4 upon receiving a system parameter message being broadcasting by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message, and determining whether
7 the mobile communication terminal exists in the private mobile communication service area;

8 when the mobile communication terminal exists in the private mobile communication service
9 area, transmitting a location registration message including a predetermined registration type to the

10 private mobile communication system;
11 receiving a message indicating a private mobile communication associated command from
12 the private mobile communication system; and
13 performing a command contained in the received message.